APPENDIX A: ENVIRONMENTALMANGEMENT PLAN

Environmental Management & Monitoring Plan

Prospecting Activities in respect to Base and Rare Metals, Industrial Mineral, Precious Metals on Exclusive Prospecting License (EPL) 10168, Hardap Region



Draft Version for Submission

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OVERALL OBJECTIVES OF THE EMP

The following overall environmental objectives have been set for the Ms. Mickal N. Tjituka exploration and prospecting development project:

- To comply with national legislation and standards for the protection of the environment.
- To limit potential impacts on biodiversity through the minimization of the footprint (as far as practically possible) and the conservation of residual habitat within the mine area.
- To keep surrounding communities informed of prospecting activities through the implementation of forums for communication and constructive dialogue.
- To develop, implement and manage monitoring systems to ensure good environmental performance in respect of the following: ground and surface water, air quality, noise and vibration, biodiversity and rehabilitation.

KEEPING EMPS UP TO DATE

This Environmental Management Plan (EMP) document is designed to meet legal requirements and avoid or minimize the impacts associated with the implementation of Ms. Mickal N. Tjituka exploration and prospecting development. It is the intention that this EMP should be seen as a "living document" which will be amended during the operation, as the activities might change or new ones be introduced.

Should a listed activity(s) as defined in the Environmental Impact Assessment Regulations: Environmental Management Act, 2007 (Government Gazette No. 4878) be triggered (as a result of future modifications/changes at the mine), this EMP will be updated as a result of another EIA process as stipulated in the regulations.

IMPACTS MANAGEMENT / MITIGATION MEASURES

Table 17. Impact on the Biophysical Environment – prospecting license site Access and use of vehicles

Issue	Management commitment	Phase
Understanding who the stakeholders are	 Maintain and update the stakeholder register, including stakeholders' needs and expectations. A representative database would include all relevant local government, service providers, indigenous populations, Traditional Authorities (TAs), NGOs or community-based organizations Ensure that marginalized and vulnerable groups are also considered in the stakeholder communication process. Record partnerships as well as their roles, responsibilities, capacity and contribution to development. 	All
Liaising with interested and affected parties at all phases in the mine life	Devise and implement a stakeholder communication and engagement strategy.	All
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

Table 18. Impact on the Biophysical Environment – prospecting license site Access and use of vehicles

Impact Event	Disturbances on Biodiversity in respect to access tracks	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to a that as much as possible, disturbance on biodiversity is avoided and previously the proposed prospecting activities is undertaken.	
Proposed Mitigation Measures	 Strict compliance with the Relevant authorities guidelines and EMP is recommended in respect to managing incidental events; Exploration activity must be limited to the pre-identified pegmatites belts within the prospecting license area Unless necessary and agreed with the relevant authorities, no new access tracks shall be created and no lodging shall be allowed in sensitive zones 	All
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

Table 19. Impact on the Biophysical Environment – Bulk sampling and ore extraction

Table 19. Impact on the B	iophysical Environment – Bulk sampling and ore extraction	
Impact Event	Disturbances on Biodiversity in respect to sampling and trenching activ	/ities
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to that as much as possible, disturbance particularly on wildlife (poachir flora (clearing / damage) species is reduced and or prevented.	
Proposed Mitigation Measures	 Strict compliance with the Forestry Act and Regulations in respect to vegetation clearing, Relevant authorities guidelines and EMP is recommended in respect to managing incidental events; Should the proponent require clearing, removal and transplantation of any protected plant species – services of an appropriately qualified botanist / ecologists must be sought and relevant permissions obtained prior to any such activity being undertaken A plant survey must be conducted and all protected species clearly marked and protected prior to setting-up any sampling site and or digging any trench for geological sampling Exploration activity must be limited to the pre-identified pegmatites belts within the prospecting license area thus reducing the spatial impacts to key areas of the EPL Unless necessary and agreed with the relevant authorities, no new access tracks shall be created and no lodging shall be allowed in sensitive zones Temporary bins and spill kits must be provided to ensure that all waste material including hydrocarbons are well contained prior to final disposal at approved sites in either Maltahöhe Settlement or Mariental Town Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing unnecessary spillage of hydrocarbons 	All
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

Table 20. Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)

Impact Event	Waste generation and disposal Phase
Desired mitigation outcome	The objective of the mitigation in respect to waste generation is to ensure that the best scenic value and integrity of the affected environment maintained and or enhanced by reducing chances of littering through proper use of waste management facilities.
Proposed Mitigation Measures	 Environmental awareness is an important aspect of environmental management, therefore all project staff and service providers must be educated of the environmental compliance requirements and urged to comply accordingly on induction with the project site. Given that lodging is recommended to be at existing camp-sites and or lodges, this aspect shall be managed as part of the current property owners compliance requirements In the field, hydrocarbon waste shall be contained (in spill kits) and stored in appropriate heavy-duty plastic cabbage, transported to the nearest waste-oil recycling / solid waste disposal facility in Maltahöhe Settlement or Mariental Town Towns A sufficient number of spill kits shall be acquired and strategically placed, particularly near every sampling site to ensure that timely response to any potential fuel and lubricant spills is conducted (should the project require any sampling activities to be undertaken). These shall include an on-site used oil disposal bin(s) Equally, effluent waste shall be managed in compliance with the lodging host's requirements, although during any sampling activities – temporary dry-pit toilet facility must be provided at every site.
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)

Table 21. Environmental Impact: Human Health and Safety

Impact Event	Prevention and mitigation of any health and safety hazards / risks	Phase
Desired mitigation outcome	The objective of the mitigation in respect to health and safety hazar ensure that the health, safety and protection of both the project st community receive priority in terms of budgetary provision and compliant	aff and
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Carry sufficient First Aid equipment to ensure that minor injuries reduces need to access local health facility and therefore minimizing potential strain on local services Strict compliance with national health protocols as and when directive are issued in respect to any disease outbreak and or recurring pandemics such as HIV / AIDS and Pandemic outbreak Strict ban on use of any toxic substances within and during the working environment must be prohibited 	All
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

Table 22: Impact on the Social Environment – Air and Noise Pollution

Impact Event	Disturbances to the social environment Phase	
Desired mitigation outcome	The objective of the mitigation in respect to ambient air quality and sense of place / noise and chance is to ensure that all possible receptors are identified an practical measures are put in place to reduce these impacts and or respond wit appropriate mitigation to complaints	d
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly. All excessive noise generating activities must be strictly carried out during the day between o8hoo (am) and 17hoo (pm) week days only. Conditions of the Environmental Clearance Certificate and Surfaceuse Agreement (with the relevant Traditional Authority and Town) must be accordingly adhere to. As much as possible, it is recommended that vehicles with the most minimum footprint are used such as smallest excavator and or Front-end loaders (drawn on a trailer). 	
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

Table 23: Impact on the Social Environment – Culture, Heritage and Scenic values

Table 25. Impact on the Social Environment — Culture, Hentage and Seeme values		
Impact Event	Disturbances to the heritage and scenic value of the environment Pha	ase
Desired mitigatio n outcome	The objective of the mitigation in respect to impacts on cultural a archaeological heritage integrity is to ensure that at all times, project staff vigilant of the potential to intrude, disturb and or damage important artifacts a therefore must avoid wondering onto any protected and or sensitive known identified site.	are and
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events Contractors working on the site should be made aware that under the National Heritage Act, 2004 (Act No. 27 of 2004) any items protected under the definition of heritage found in the course of development should be reported to the National Heritage Council The chance finds procedure as outlined in the EMP must be implemented at all times, and. Detailed field survey should be carried out if suspected archaeological resources or major natural cavities / shelters have been unearthed during the proposed exploration and test prospecting operations. 	
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basis)	

Table 24: Impact on the Economic Aspect

Impact Event	Disturbances on social and economic aspects	Phase
Desired mitigation outcome	The objective of the mitigation in respect to economic impacts relat proposed activity, is to ensure that potential negative economic impact and existing land-use are prevented, reduced and or mitigated and thones enhanced.	s on other
Proposed Mitigation Measures	 It is critical that timely and continuous communication and dissemination of information with the local community is ensured to alleviate potential sense of social marginalization, drive gender equality and enhance the understanding and perception of the benefits associated with Ms. Mickal N. Tjituka 's activities To enhance the positive impacts relating to marginal net benefits for the micro-economy (local residence of Maltahoe Settlement or Mariental Town and the region at large) and national economy at larger, legislative provisions to Affirmative Action and Labour Welfare must be observed It is strictly recommended that Ms. Mickal N. Tjituka negotiates and signs a Surface Use Agreement detailing aspects of conduct and benefit distribution with all key stakeholder i.e. property owner 	All
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract bas	sis)

Table 25: Site Closure and Rehabilitation

Impact Event	Disturbances on social and economic aspects	Phase
Desired mitigation outcome	The Proponent will commit to establishing a rehabilitation plan as pamine closure plan. A conceptual mine closure plan with costing development must be compiled by Ms. Tjituka Investment Prosp association with Enviro-Leap and forms part of the environmental coand monitoring programme.	is under ecting in
Proposed Mitigation Measures	 Ms. Tjituka Investment 'shall submit regular (bi-annual or annual Environmental Reports) to the relevant Ministry stating the exploration activities and environmental performance of the project. Staff of the MET or Ministry of Mines and Energy may at any time inspect the exploration area. Internal and external monitoring should involve Ms. Tjituka Investment Prospecting's safety and environmental officer and members of the MEFT. Should the decision be taken that the project is not economically viable the area will be rehabilitated. The rehabilitation measures that are set out in the Rehabilitation Plan (to be compiled and approved by MEFT) are binding to all personnel on site including the crew and contractors. 	Closure
Responsibility	Ms. Mickal N. Tjituka and Enviro-Leap Consulting (On contract basi	s)